Claims

1. Bipolar transistor, with

an emitter area (3) which can be contacted electrically via

5 an emitter electrode (1);

a base area (4) which can be contacted electrically via a base electrode (2);

a collector area (5) which can be contacted electrically via a collector electrode;

10 characterized in that

at least one electrode of the emitter, base and collector electrodes (1, 2) is a polysilicon layer, into which impurity atoms, which cause a high density of vacancies in the polysilicon layer, are inserted.

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- Bipolar transistor according to Claim 1, characterized in that the impurity atoms are C, P or Ar atoms.
- 3. Bipolar transistor according to Claim 1 or 2, characterized in that the density of the impurity atoms in the polysilicon layer is in the range of about $10^{19} 10^{21}$ cm⁻³.
- 4. Bipolar transistor according to one of the preceding claims, characterized in that the polysilicon layer is doped with boron atoms.
- 30 5. Bipolar transistor according to Claim 4, characterized in that the concentration of the boron atoms is chosen to be greater than $5 \times 10^{20} \text{ cm}^{-3}$.

6. Bipolar transistor according to one of the preceding claims,

characterized in that

- 5 the at least one electrode (1, 2) consists of polycrystalline silicon-germanium.
 - 7. Bipolar transistor according to one of the preceding claims,
- 10 characterized in that the at least one electrode is the base electrode (2).
 - 8. Bipolar transistor according to one of the preceding claims,
- 15 characterized in that the bipolar transistor is a self-aligned bipolar transistor.